WHAT IS CLAIMED IS:

- A water soluble hybrid phthalocyanine derivative.
- A derivative of claim 1 wherein the derivative is silicon[di(1,6-diphenyl-2,3 naphthalocyanine)]diphthalocyanine bis [poly(ethylene glycol) methyl ether].
- 5 3. A derivative of claim 1 wherein the derivative is silicon[di(1,6-diphenyl-2,3-naphthalocyanine)]diphthalocyanine bis[poly(ethylene glycol)].
 - A derivative of claim 1 wherein the derivative is silicon [di(1,6-diphenyl-2,3-naphthalocyanine)] diphthalocyanine [poly(ethylene glycol)][poly(ethylene glycol)acetylthiopropionate].
- 10 5. A derivative of claim 1 wherein the derivative is silicon[di(1,6-diphenyl 2,3-naphthalocyanine)]di(2,3-dicarboxyphthalocyanine)dihydroxide.
 - 6. A derivative of claim 1 wherein the derivative is silicon[di(1,6-diphenyl 2,3-naphthalocyanine)]di(2,3-dicarboxyphthalocyanine) bis[poly(ethylene glycol)methyl ether].
- A derivative of claim 1 wherein the derivative is sulfo silicon di[(1,6-15 diphenyl-2,3-naphthalocyanine] diphthalocyanine dihydroxide.
 - A derivative of claim 1 wherein the derivative is silicon [di(1,6-diphenyl-2,3-naphthalocyanine)] diphthalocyanine [poly(ethylene glycol)][poly(ethylene glycol)thiopropionate].
- A derivative of claim 1 wherein the derivative is sulfo silicon di[(1,6diphenyl-2,3-naphthalocyanine]diphthalocyanine[-2butyrothiolactone)amidomethoxide]hydroxide.

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- A derivative of claim 1 wherein the derivative is sulfo silicon di[(1,6-diphenyl-2,3-naphthalocyanine]diphthalocyanine[N-(cysteine)amidomethoxide]hydroxide.
- A derivative of claim 1 wherein the derivative is silicon tetra-tertbutylphthalocyanine bis [(4-aminobutyl) dimethylsilyloxide].
- 12. A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,l]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon dihydroxide.
 - A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,l]-7,17-dibenzo[g,q]-5,10, 15,20-tetrazoporphyrinato]silicon bis (4-Aminobutyldimethylsilyloxide).
 - 14. A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,l]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis (3-amino-propyldiisopropylsilyloxide).
- 15. A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-15 tetraphenyldinaphtho[b,l]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis-[(10-carbomethoxydecyl) dimethyl silyloxide].
 - 16. A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,1]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis (7-octl-enyldimethylsilyloxide).
- 20 17. A derivative of claim 1 wherein the derivative is sulfo silicon naphthalocyanine bis(4-aminobutyldimethyl silyloxide).
 - 18. A derivative of claim 1 wherein the derivative is sulfo silicon

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naphthalocyanine bis [10-(carbomethoxy)decyl dimethylsilyloxide].

- A derivative of claim 1 wherein the derivative is sulfo silicon naphthalocyanine bis(3-aminopropyldiisopropylsilyloxide).
- A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,17⁶ tetraphenyldinaphtho[b,1]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis[N-succinamido)aminobutyldimethyl silyloxide.
 - A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,1]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis[4[(acetylthiopropionamido)butyl] dimethylsilyloxide].
 - 22. A derivative of claim 1 wherein the derivative is sulfo[2¹,2⁶,12¹,12⁶-tetraphenyldinaphtho[b,l]-7,17-dibenzo[g,q]-5,10, 15,20-tetraazoporphyrinato]silicon bis[4[(thiopropionamido)butyl] dimethylsilyloxide].
 - A conjugate comprising a sulfonated hybrid phthalocyanine derivative and a substituent.
- 15 24. A conjugate of claim 23 wherein the substituent is an antibody.
 - A conjugate of claim 24 wherein the antibody specifically binds to human chorionic gonadotropin.
 - A conjugate of claim 23 wherein the substituent is a ligand analogue.
 - The conjugate of claim 26 wherein the ligand analogue is morphine.
- 20 28. A method for determining the presence or amount of at least one target

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ligand capable of competing with a ligand analogue conjugate for binding sites available on a ligand receptor, said ligand analogue conjugate comprising at least one ligand analogue coupled to a signal development element, said signal development element comprising a water soluble phthalocyanine derivative, in a fluid sample suspected of containing said target ligand comprising the steps of:

- a. contacting said fluid sample with said ligand analogue conjugate and said ligand receptor to form a homogeneous reaction mixture;
- b. detecting bound or unbound ligand analogue conjugates in said reaction mixture using said water soluble phthalocyanine derivative; and,
- c. relating the detectable signal to the presence or amount of said target ligand in said fluid sample.
- 29. A method of determining the presence or amount of at least one ligand in a _ fluid sample suspected of containing said target ligand comprising the steps of:
- a. contacting said fluid sample with a receptor said receptor coupled to a signal development element comprising a water soluble phthalocyanine derivative, so that said receptor specifically binds said target ligand to form a homogeneous reaction mixture;
- b. detecting bound receptor in said reaction mixture using said water soluble phthalocyanine derivative; and,
- c. relating the detectable signal to the presence or amount of said target